Claims

1.   Method for analyzing an abnormal region on an optical recording medium, including the steps of:

- detecting (21) the abnormal region;
- determining (23, 31) the type of the abnormal region; and
- measuring (24, 32) the length of the abnormal region, **characterized** in that the step of determining (23, 31) the type of the abnormal region includes:
- making a speed controlled jump (22) over the abnormal region;
- obtaining information on the type of abnormal region during the speed controlled jump (22).

2.   Method according to claim 1, **wherein** the step of determining (23, 31) the type of the abnormal region further includes:
- differentiating (23) between a first group of types and a second group of types of abnormal region based on the obtained information.

3.   Method according to claim 1, **wherein** the step of obtaining information on the type of abnormal region during the speed controlled jump (22) includes evaluating a data signal (HF) and/or a track crossing signal (TC) obtained from the optical recording medium.

4.   Method according to one of claims 1 to 3, **wherein** the step of measuring (24, 32) the length of the abnormal region includes one of:
- measuring (244) the time needed for jumping (22) over the abnormal region; and
- counting (324) a number of pulses emitted by a phase locked loop during jumping (22) over the abnormal region, the phase locked loop replicating a track crossing signal obtained before reaching the abnormal region in the jumping step (22).

5.   Method according to one of claims 1 to 3, **further** including the steps of:
- jumping back (30) to the start of the abnormal region;
- reading (30) data stored in the abnormal region; and
- evaluating (31) the data for determining the type of abnormal region.

6.   Method according to claim 5, **wherein** the step of evaluating (31) the data for determining the type of abnormal region includes at least one of:
- evaluating a sync signal included in the data; and
- evaluating the data frequency in the abnormal region.

7.   Method according to claim 5 or 6, **wherein** the step of measuring (24, 32) the length of the abnormal region includes counting the number of wrong syncs in the abnormal region.

8.   Method according to one of claims 1 to 7, **further** including the step of storing the position, the length and/or the type of the abnormal region on the optical recording medium.

9.   Method according to anyone of claims 1 to 8, **wherein** the types of abnormal region include at least one of a groove region, a mirror region, a defect region, a wrong bitrate region and a wrong structure region.

10.   Device for analyzing an abnormal region on an optical recording medium, **characterized** in that it performs a method according to one of claim 1 to 10.

11. Apparatus for reading from and/or writing to optical recording media, **characterized** in that it performs a method according to one of claims 1 to 9 or includes a device according to claim 10 for analyzing an abnormal region on an optical recording medium.